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NOV 20 2006

6(Currently amended). A pointing device comprising:

an illumination system that illuminates a surface over which said pointing device moves, said illumination system generating a light level determined by an illumination control signal;

a camera system that records a plurality of images of said illuminated surface; and

a controller that records first and second images taken by said camera at different times and determines a displacement indicative of the direction and distance said pointing device moved between said two different times, said controller further generating said illumination control signal, said illumination control signal depending on at least one of said images recorded by said camera system-;

The pointing device of Claim 1 wherein said illumination system has further having a first illumination setting for providing a first level of accuracy in said determined displacement and a second illumination setting for providing a second level of accuracy that is greater than said first level of accuracy, said second illumination setting requiring more power than said first illumination setting, said illumination setting being determined by a control signal supplied by a user of said pointing device.

7(Cancelled)

8(Cancelled).

9(Cancelled).

10(Cancelled).

11(Cancelled).